Statement-II

State-wise Manufacturers of Solar Photovoltaic Cells/Modules, Solar Water Heaters and Solar Cookers

Sl. No.	State	Solar Cells	SPV Modules	FPC based solar water heaters	ETC based solar water heaters	Box type solar cookers	Concentrating solar cookers
1.	Andhra Pradesh	1	6	5	3		1
2.	Gujarat			4	2	5	3
3.	Haryana				1		
4.	Himachal Pradesh			1			
5.	Karnataka	3	6	27	8		4
6.	Karela		1		3		1
7.	Madhya Pradesh					1	1
8.	Maharashtra		1	15	13		4
9.	Punjab		1	2		1	
10.	Rajasthan		1				1
11.	Tamil Nadu	2	2	3	3		1
12.	Uttar Pradesh	2	2			2	1
13.	Uttrakhand			1			
14.	West Bengal	1	1		2	1	
15.	Delhi			1	8	1	4
	TOTAL:	9	21	59	43	11	21

Harnessing solar energy

3640. SHRI S. ANBALAGAN: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether it is a fact that the country is very far behind the advanced countries in harnessing the solar energy;

(b) if so, the details of India's position as compared to USA, Japan, Germany and China;

(c) the amount allocated for development of this sector during each of the last three years and the amount spent and the achievements made therefrom;

(d) whether Government proposes to initiate any new steps to harness the solar energy effectively; and

(e) if so, the details thereof?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR): (a) and (b) Solar Energy can be harnessed through two

routes namely solar photovoltaic for direct conversion to electricity and solar thermal for heating/cooling and power generation respectively. India is working on development and deployment of both routes. The production of solar energy devices/systems and their utilization is regularly increasing. As per some of the international reports India is ranked fourth in the production and installation of solar water heating systems, after China, Germany and Turkey. In the area of solar cell production, India is ranked eighth after Japan, Germany, China, USA, Taiwan, Phillippines and Spain.

(c) The details of amount allocated and spent and the achievements made in the development of this sector during the last three years are given in the Statement (*See* below).

(d) and (e) The Ministry has taken several steps to increase the utilization of solar energy in the country, which include (i) taking up expanded programmes to encourage utilization of solar energy systems through subsidy or soft loans, (ii) incentive to manufacturers, commercial users and power project developers, (iii) research and development to reduce the cost, improve the efficiency and performance of solar energy systems, (iv) support to Akshya Urja shops to provide additional channels for sale and after-sales servicing of solar energy systems, and (v) create awareness through print and electronic media about the solar energy systems and their benefits.

Statement

Details of Budget, Expenditure and Achievements under Solar Energy Programmes

(Rs. in crore)

Year	Budget Estimates	Revised Estimates	Expenditure	Achievements
2005-06	86.60	59.04	58.61	HLS (No) 20,746 SL (No) 885 Solar Pumps (No) 222 PP & SLS (kWp) 52.52 SWH (Lakhs, sq.m.) 4 Solar Cooker (No) 20105
2006-07	85.22	75.99	75.40	HLS (No) 33,275 SL (No) 61,246 Solar Pumps (no) 69 PP & SLS (kWp) 475.25 SWH (Lakhs, sq.m.) 4 Solar Cooker (No) 16824
2007-08*	124.50	82.56	77.08	HLS (No) 57,382 SL (No) 46,958 Solar Pumps (No) 42 PP & SLS (kWp) 326 SWH (Lakhs, sq.m.) 4.5 Solar Cooker (No) 213

* The achievement reports from some of the States are awaited.